

CLAIM AMENDMENTS

1 1. (Currently amended) ~~Wooden element, characterised in~~
2 ~~that it comprises~~ A wooden element comprising least one portion of
3 one of its inside and/or outside surface consisting of at least one
4 synthetic resin having a transformation process that changes
5 between the initial step and the final step of ~~realisation~~
6 formation of said wooden element.

1 2. (Currently amended) ~~Wooden~~ The wooden element
2 according to claim 1, ~~characterised in that~~ wherein said portion
3 consists of a synthetic resin-based composite material exhibiting a
4 transformation process that changes between the initial step and
5 the final step of realisation of said wooden element.

1 3. (Currently amended) ~~Wooden~~ The wooden element
2 according to claim 1, ~~characterised in that~~ wherein said synthetic
3 resin in said initial step is a thermoplastic phenolic resin and in
4 said final step is a thermosetting phenolic resin.

1 4. (Currently amended) ~~Wooden~~ The wooden element
2 according to ~~one or more of the previous claims, characterised in~~
3 that claim 3 wherein said phenolic resin is in the form of a film.

1 5. (Currently amended) ~~Wooden element according to one~~
2 ~~or more of the previous claims, characterised in that~~ The wooden
3 element according to claim 2 wherein said composite material is in
4 the form of a composite or pre-composite plate-shaped element.

1 6. (Currently amended) ~~Wooden~~ The wooden element
2 according to ~~one or more of the previous claims, characterised in~~
3 that claim 2 wherein said composite material is in the form of a
4 staff-shaped element for its fixing and/or stiffening.

1 7. (Currently amended) ~~Wooden~~ The wooden element
2 according to ~~one or more of the previous claims, characterised in~~
3 that claim 4 wherein said film comprises a sheet containing
4 unidirectional fibers fibres.

1 8. (Currently amended) Wooden The wooden element
2 according to ~~one or more of the previous claims, characterised in~~
3 that claim 7 wherein said film comprises fibres oriented according
4 to different axes and is a derivative of a felt fabric, and/or a
5 sewn felt and/or a felt with cut thread, and/or a spunbonded
6 fabric.

1 9. (Currently amended) Wooden The wooden element
2 according to ~~one or more of the previous claims., characterised in~~
3 that ~~it~~ claim 1 which is a composite wooden product comprising a
4 phenolic-based adhesive.

5 10. (Currently amended) Wooden The wooden element
6 according to ~~one or more of the previous claims, characterised in~~
7 that ~~it~~ claim 1 which is a stratified laminated wood.

1 11. (Currently amended) Method A method for the
2 manufacture of a wooden element, ~~characterised in that it consists~~
3 in which comprises associating, inside or outside the wooden
4 element, at least one thermoplastic phenolic resin-based composite
5 material, melting said resin at a predetermined temperature for
6 obtaining a perfect penetration of said resin into the

7 protuberances of said wooden element, and transforming said
8 thermoplastic phenolic resin into a thermosetting phenolic resin.

1 12. (Currently amended) The method ~~Method for the~~
2 ~~manufacture of a wooden element~~ according to claim 11,
3 ~~characterised in that~~ wherein a thermosetting composite is applied
4 onto said thermoplastic phenolic resin coating.

1 13. (Currently amended) ~~Method for the manufacture of a~~
2 ~~wooden element according to one or more of the previous claims,~~
3 ~~characterised in that~~ The method according to claim 12 wherein said
4 phenolic resin-based composite material is obtained by
5 pultrusion, avoiding the final hardening step of the phenolic
6 resin, so that the latter remains partly or totally thermoplastic,
7 then melting said partly or totally thermoplastic resin in the
8 association process to said wood, for a intimate connection without
9 using adhesives, then transforming said thermoplastic phenolic
10 resin into a thermosetting phenolic resin.

1 14. (Currently amended) ~~Method for the manufacture of a~~
2 ~~wooden element according to one or more of the previous claims,~~

3 ~~characterised in that~~ The method according to claim 13 wherein
4 before or during its application on said wooden element, said
5 composite material is thermo-formed and shaped.

1 15. (Currently amended) ~~Method for the manufacture of a~~
2 ~~wooden element according to one or more of the previous claims,~~
3 ~~characterised in that~~ The method according to claim 14 wherein the
4 thermo-forming process occurs at a sufficiently high temperature to
5 soften the thermoplastic resin, but sufficiently low to prevent the
6 onset of the crosslinking reaction.

1 16. (Currently amended) ~~Method for the manufacture of a~~
2 ~~wooden element according to one or more of the previous claims,~~
3 ~~characterised in that~~ The method according to claim 15 said
4 composite material is in the form of a plate-shaped element.

1 17. (Currently amended) ~~Method for the manufacture of a~~
2 ~~wooden element according to one or more of the previous claims,~~
3 ~~characterised in that~~ The method according to claim 15 wherein said
4 composite coating is in the form of a staff.

1 18. (Currently amended) ~~Use~~ The use of a thermoplastic
2 phenolic resin to associate to a wooden element with final effect
3 of thermosetting resin, consisting of a laminated wood with
4 unidirectional vein (LVL), or a laminated wood with vein at 90°
5 between each layer (Plywood), or wood pieces glued under pressure
6 (Glulam), or parallel wooden slabs (PSL), or having a specific
7 orientation (OSB), and similar ones.